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## MINUTES.

### Forty-third Annual Meeting, Academy of Science,

December 27, 28, 29, 1910, at Topeka, Kan.

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**P**URSUANT to published announcement, the Academy convened in the supreme court room at the state house at seven P. M. December 27, and was called to order by President Dains, and the secretary read his report of the last meeting, which was adopted by the Academy. The treasurer's report was next given, as follows:

Balance on hand December 28, 1909.....	\$485.98
Receipts from membership dues.....	106.00
Receipts from sale of Transactions.....	12.35
Receipts from interest on deposits.....	16.70
Total.....	\$621.03
Expenditures—for Library.....	16.40
Balance on hand.....	\$604.63

F. W. BUSHONG, *Treasurer*.

This report was referred to the Auditing Committee.

A lecture illustrated by stereopticon projections was next given by Dr. C. F. Menninger; subject, "Some Aspects of the Etiology of Pellagra." This was ably treated and listened to with much interest.

The president announced the following committees:

*Nominations:* Knaus, Yates, and Emerson.

*Resolutions:* McWharf and Welin.

*Membership:* Harshbarger, Smith, and Withington.

*Program:* Bushong and Mrs. Smyth.

*Necrology:* Lovewell and Matthews.

*Press:* Cardiff and Menninger.

*Time and Place:* Yates, Welin, and Bushong.

*Auditing:* Smith and Cooper.

The meeting adjourned till to-morrow, Wednesday, at 9 A. M.

WEDNESDAY, DECEMBER 28—9 A. M.

Supreme Court Room.

Academy met pursuant to adjournment.

Secretary's minutes read and approved.

It was moved, and by vote adopted, that a Legislative Council be constituted to take into consideration the interests of the Academy, and especially to look after the legislative measures which may affect its welfare. Said Executive Council shall consist of the present Executive Committee, to which four members are added, to be proposed by a nominating committee. The committee named were E. H. S. Bailey, F. B. Dains, S. J. Crumbine, and J. T. Willard, who, on ballot, were declared elected.

The Academy next listened to the reading and discussion of papers, in order as posted by program committee who selected them from the following list. This list is given in the order of the papers as received by the secretary. The order of reading is determined by the Program Committee.

1. Lightning. A. A. Graham, Topeka.
2. Origin and Distribution of the Human Race. A. A. Graham, Topeka.
3. The Cause of Earthquakes and Volcanic Action. A. A. Graham, Topeka.
4. The Relation Between the Activity of Ground Bacteria and the Climate. A. A. Graham, Topeka.
5. Letters to the Director of the Weather Bureau, Topeka, Kan. A. A. Graham, Topeka.
6. History of Catalysis and its Utility in Systematic Phthisis. Wm. P. McCartney, Manila, P. I.
7. Song of the Stars. Part I. Rev. B. T. Stauber, Lincoln, Kan.
8. Thoughts on Tuberculosis. J. M. McWharf, Ottawa.
9. Short Weights and Measures. S. J. Crumbine, Topeka.
10. McMurry Indian contracts and the Gore Investigation. A. B. Reagan, Nett Lake, Minn.
11. Birds of the Olympic Peninsula, Washington. A. B. Reagan, Nett Lake, Minn.
12. Sketches of Indian Life and Character. A. B. Reagan, Nett Lake, Minn.
13. The Great Rock Wall of Texas. T. L. Eyerly, Dallas, Tex.
14. Notes on the Preglacial Channel of the Kansas River. (10 minutes.) J. E. Todd, Lawrence.
15. History of Wakarusa Creek. (20 minutes.) J. E. Todd, Lawrence.
16. Some Aspects of the Etiology of Pellagra. (Illustrated by lantern projections.) Dr. C. F. Menninger, Topeka.
17. Additions to the List of Uredineæ of Bourbon County. A. O. Garrett, Salt Lake City, Utah.
18. Notes on the Caves of Cuba. J. W. Beede, Bloomington, Ind.

19. Additions to the List of Kansas Coleoptera for 1910. (3 minutes.)  
W. Knaus, McPherson.
20. Notes on Six Species of Kansas Beetles. W. Knaus, McPherson.
21. Kansas Coleoptera: the Families Rhynchitidæ, Attelabidæ, Byrrsophidæ, Otiorhynchidæ, Curculionidæ, Brenthidæ, and Calandridæ.  
(Read by title, ½ minute.) W. Knaus, McPherson.
22. Ephemerides of Glacial Epochs. Bernard B. Smyth, Topeka.
23. America During the Bronze Age. Bernard B. Smyth, Topeka.
24. Harmonic Forms, III—Paladin Squares. Bernard B. Smyth, Topeka.
25. An Adobe Architect. Mrs. Lumina C. R. Smyth, Topeka.
26. "Still in the Laramie Country, Converse County, Wyoming." C. H. Sternberg, Lawrence.
27. The Examination of a Sample of Millet for Alleged Poisonous Qualities. L. E. Sayre, Lawrence.
28. The Present Status of Ornithological Science in Kansas. Rev. P. B. Peabody.
29. Determining from the Excise Records the Amount of Alcohol Consumed in Beverages. E. C. Warfel, Wamego.
30. Erosion in Cool Moss-covered Regions. W. G. Twenhofel, Lawrence.
31. Recent Fractures and Faults in Meade County. E. Haworth, Lawrence.
32. Accuracy of the Safety-lamp Test for Methane. C. M. Young, Lawrence.
33. Book Collections in the State House. J. T. Lovewell, Topeka.
34. The Trend of the Pure Food Legislation. E. H. S. Bailey, Lawrence.
35. Analyses of Soft Waters from the Sandstone in the Lawrence Shales.  
C. C. Young, Lawrence.
36. Some Problems in the Drug End of the Food-and-drugs Law Administration. L. E. Sayre, Lawrence.
37. The Influence of Germination of Wheat upon the Baking Qualities of Flour made from such Wheat. C. O. Swanson and J. T. Willard, Manhattan.
38. The Influence of Milling By-products upon the Baking Quality of Flour.  
J. T. Willard and C. O. Swanson, Manhattan.
39. The Influence of Chemical Substances, Especially Amido Compounds, upon the Baking Quality of Flour. J. T. Willard and C. O. Swanson, Manhattan.
40. A Visit to the Ruins of Puyé. A. H. Thompson, Topeka.
41. The Place of Science in the Development of Kansas. (Presidential Address.) F. B. Dains, Topeka.
42. Eclipse Photographs, Washburn College Observatory. H. I. Woods, Topeka.
43. Double-star Observation, Washburn College Observatory. H. I. Woods, Topeka.
44. Geographical Distribution of Plants. W. C. Stevens, Lawrence.

45. Some Notes on the Prairie Dog. Theo. H. Sheffer, Manhattan.
46. Marine Animals of Puget Sound. W. J. Baumgartner, Lawrence.
47. Occurrence of Barium in Certain Common Weeds. E. H. S. Bailey and L. E. Sayre, Lawrence.
48. A Study of Petroleum. B. C. Frichet, Lawrence.
49. Origin and Development of Plant and Animal Instincts. L. C. Wooster.
50. Mineral Specimens. J. C. Cooper, Topeka.
51. Difficulties in Detecting Poisons. A. P. Cady, Lawrence.

Paper No. 2 was read by its author, A. A. Graham, and discussed.

Paper No. 32 followed, entitled "Accuracy of the Safety-lamp Test for Methane," read by author, C. M. Young, and discussed.

Prof. C. H. Sternberg read an interesting paper, No. 26, which was an account of his field work in Laramie county, Wyoming.

No. 25 followed, which was a charming account of the mud-wasp, illustrated with specimens of its work, and was read by the author, Mrs. L. C. R. Smyth, of Topeka.

No. 20 was a list of Kansas Beetles, by W. Knaus, who also gave, in No. 19, "Additions to the List of Kansas Coleoptera for 1910."

In No. 21 the same author spoke of various families of Coleoptera.

No. 30, "Erosion in Cool Moss-covered Regions," was an account by Mr. Twenhofel of his observations in Newfoundland and other places.

Professors Bailey and Sayre reported their investigations in finding barium in certain common weeds, in paper No. 47.

The Committee on Membership reported the following applications for membership in the Academy, and recommended their acceptance:

- Prof. R. A. Cooley, Agricultural Experiment Station, Bozeman, Mont.
- B. C. Trichot, Leavenworth.
- A. A. Graham, lawyer, Topeka.
- C. E. Hall, horticulturist, Hutchinson.
- Roy Jones, student, Topeka.
- C. F. Lee, Ph. D., M. T. S., Pittsburg.
- R. K. Nabour, Manhattan.
- L. M. Plairs, Manhattan.
- David L. Randall, Ph. D., Baldwin.
- M. C. Slagle, Salina.
- Orestes H. St. John, Topeka.
- W. H. Twenhofel, Lawrence.
- Edith M. Twiss, Ph. D., Topeka.
- Geo. N. Watson, Lawrence.
- Stanley D. Wilson, Topeka.
- W. B. Wood, Manhattan.

By unanimous consent, the rules were suspended, and by vote of the secretary the candidates above named were elected members of the Academy.

W. H. Harshbarger, having completed the payment of dues to the amount of \$20, was elected a life member.

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WEDNESDAY, DECEMBER 28—2:30 P. M.

Supreme Court Room.

The Nominating Committee for candidates for officers of the Academy in ensuing year reported as follows:

*For president:* J. M. McWharf, Ottawa.

*For first vice president:* A. J. Smith, Emporia.

*For second vice president:* J. E. Welin, Lindsborg.

*For treasurer:* F. W. Bushong, Lawrence.

*For secretary:* J. T. Lovewell, Topeka.

W. KNAUS,  
J. A. YATES,  
H. W. EMERSON,  
*Committee.*

By unanimous consent rules were suspended and the ballot was cast by the president, and candidates above named were declared elected.

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WEDNESDAY, DECEMBER 28—7:30 P. M.

Carnegie Library, Washburn College.

The Academy, in papers 42 and 43, was treated with lantern projections of lunar eclipse observations taken at the Washburn Observatory at time of late eclipse. Professor Woods also exhibited projections of some of his double-star observations, and gave a brief lecture on this work at the observatory.

The Academy was next invited to partake of refreshments, served by the Washburn faculty and young lady students, who provided a happy interlude to the papers and lectures.

President Dains then introduced Doctor Sanders, who, in his usual happy manner, spoke of the Academy and its work, and was followed by Professor Yates and others, in remarks equally felicitous.

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THURSDAY, DECEMBER 29.

Supreme Court Room.

The Committee on Resolutions reported as follows:

*Resolved,* That we commend the practice of sending to the secretary the title of the paper and the time required for reading the same.

*Resolved,* That the secretary be requested to continue the compilation of

the list of members of the Academy, appending to each name its academic title and the special line of work in which each member is engaged, and also the latest post-office address.

*Resolved*, That the thanks of this Academy are extended to its local members for their general good-fellowship and their royal entertainment at Washburn College.

*Resolved*, That the thanks of the Academy are extended to the local papers for their liberal reports of the meetings of the Academy.

J. M. McWHARF,

J. E. WELIN, *Committee*.

It was moved and carried that a committee of five be appointed to seek the assistance of the Board of Health in trying to procure legislation to prevent the use of mineral poisons in embalming fluids. Voted that retiring and incoming presidents be members of this committee. The other members, named by the chair, were Dr. C. F. Menninger and Dr. S. J. Crumbine.

At the suggestion of Mr. Withington, the secretary was directed to subscribe for the *Entomological News* for the Academy.

Moved and carried that the Executive Committee be authorized to buy, with the Academy's funds, such books and journals as they deem important for the library, when the same cannot be obtained by exchanges.

The Auditing Committee reported that they had found the treasurer's report correct. Adopted.

The Necrology Committee reported the death of a life member, Hon. J. R. Mead, of Wichita. Obituary notice to be prepared by secretary.

The reading of papers was then resumed.

In No. 36 Doctor Sayre discussed "Some Problems in the Drug End of Food-and-Drugs Law Administration."

Prof. J. E. Todd read "Notes on the Preglacial Channel of the Kansas River," No. 14.

No. 23 was a paper by Bernard B. Smyth, "America During the Bronze Age." Professor Smyth also read No. 24, "Harmonic Forms III—Paladin Squares."

No. 34, "The Trend of Pure-food Legislation," was given in abstract by Professor Bailey.

J. T. Lovewell read No. 33, "The Future Library of the Kansas Academy Book Collections in the State House."

In No. 7 Rev. B. F. Stauber gave in Miltonic verse a rhapsody entitled "Song of the Stars—Part I," which implied a promise that in some future session we shall have the pleasure of listening, in this pleasant way, to the author's speculations on cosmogony.

A. A. Graham, in Nos. 2, 3 and 4, discussed "The Origin and Distribution of the Human Race," "The Cause of Earthquakes and Volcanic Action," and "The Relation Between the Activity of Ground Bacteria and Climate."

Paper No. 48 was a "Study of Petroleum," by B. C. Frichet.

Prof. L. C. Wooster read a thoughtful paper on "The Origin and Development of Plant and Animal Instincts." This paper presented some new views and elicited considerable discussion.

Mr. J. C. Cooper exhibited a collection of interesting minerals, as No. 50.

Prof. H. P. Cady discussed "Some of the Difficulties in Toxicology Owing to the Use of Mineral Poisons in Embalming Fluids." It seems to need legislation to prohibit the use of such fluids.

The following numbers, mainly from absence of writers, were not read: Nos. 1, 5, 6, 9, 10, 11, 12, 13, 17, 27, 28, 29, 31, 37, 38, 39, 40, 44, 45, 46. All these were referred to the Committee on Publication.